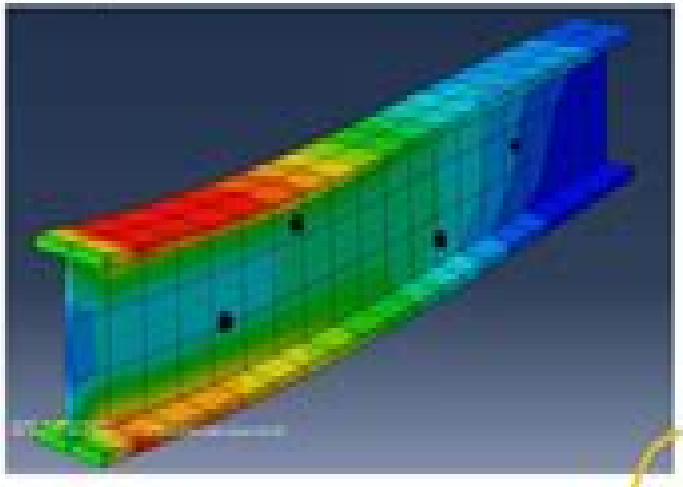
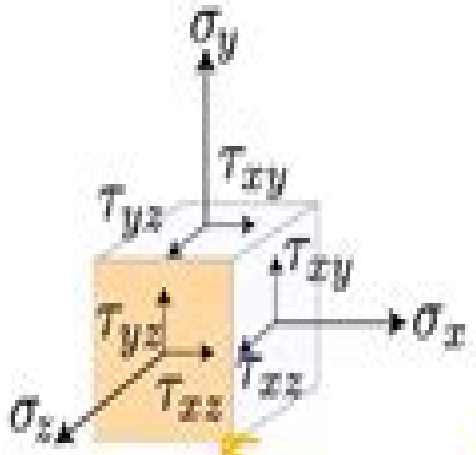
Why Learn Tensor Calculus?



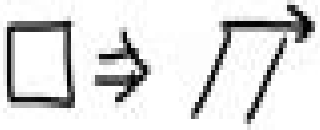
- Cauchy Stress Tensor $\boldsymbol{T}$ (or $\boldsymbol{\sigma}$)

$$\begin{bmatrix} T_{xx} & T_{xy} & T_{xz} \\ T_{yz} & T_{yy} & T_{yz} \\ T_{zx} & T_{zy} & T_{zz} \end{bmatrix} = \begin{bmatrix} \sigma_x & \tau_{xy} & \tau_{xz} \\ \tau_{yz} & \sigma_y & \tau_{yz} \\ \tau_{zx} & \tau_{zy} & \sigma_z \end{bmatrix}$$



- T_{ij} = force on face i in direction j
- σ_i = normal stress

- τ_{ij} = shear stress



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